

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: FAIL-SAFE

Report Number: P571642

Luminaire Tested: **FLD4C-02-D010 FEU4C-X-90-27 F4X-M-X-H-BL89AM**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P571642
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P207151)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/1/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: FLD4C-02-D010 FEU4C-X-90-27 F4X-M-X-H-BL89AM
Description: 4 INCH FAIL-SAFE LED DOWNLIGHT WITH 2700K, 90 CRI LEDS, 4LBMH TRIM
AND BOTTOM LENS, 0.125" OPAL POLYCARBONATE

Light Source: -
Ballast/Driver: -

Summary

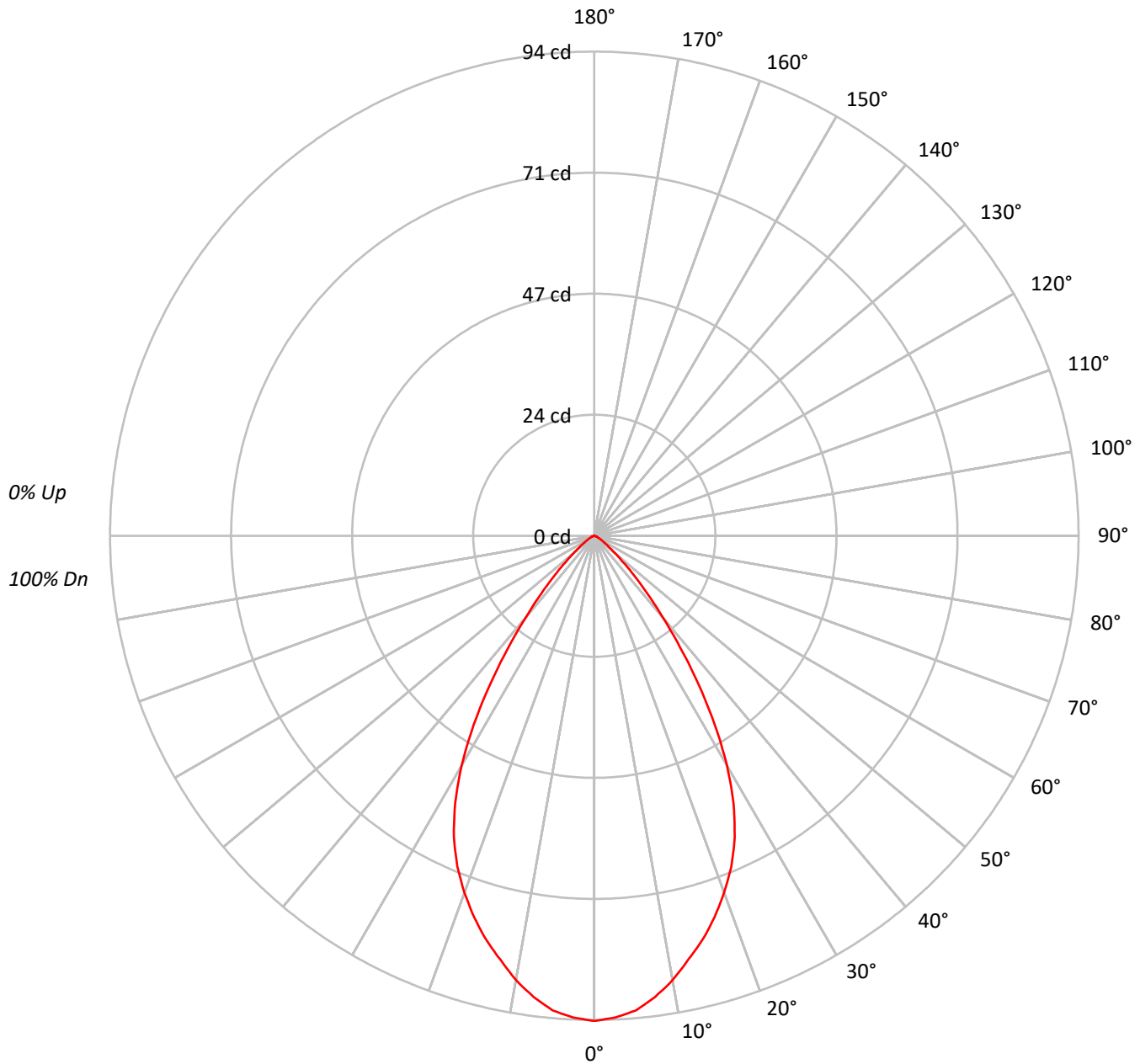
Lumens per Lamp: N/A
Luminaire Lumens: 95.0 lumens
Efficiency: N/A
Efficacy: 27.1 lumens/watt
Spacing Criteria (0/90/45): 0.95 / 0.95 / 0.93
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 3.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

TEST NUMBER: P571642

CATALOG NUMBER: FLD4C-02-D010 FEU4C-X-90-27 F4X-M-X-H-BL89AM

Luminous Intensity Polar Plot





TEST NUMBER: P571642

CATALOG NUMBER: FLD4C-02-D010 FEU4C-X-90-27 F4X-M-X-H-BL89AM

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	113	110	108	105	111	108	106	104	104	102	100		100	99	97		97
2	107	102	98	94	105	100	96	93	97	94	91		94	91	89		91
3	101	94	89	85	99	93	88	84	90	86	83		88	84	82		86
4	96	88	82	77	94	86	81	77	84	80	76		82	78	75		80
5	90	82	75	71	89	81	75	70	79	74	70		77	73	69		75
6	86	76	70	65	84	75	69	65	74	68	64		72	68	64		71
7	81	71	65	60	80	70	64	60	69	64	60		68	63	59		67
8	77	67	60	56	75	66	60	56	65	60	56		64	59	55		63
9	73	63	56	52	72	62	56	52	61	56	52		60	55	52		59
10	69	59	53	49	68	59	53	49	58	52	49		57	52	48		56

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	11573
5°	11407
10°	10928
15°	10328
20°	9635
25°	8743
30°	7306
35°	5294
40°	3304
45°	1894
50°	994
55°	557
60°	344
65°	203
70°	144
75°	47
80°	71
85°	0



TEST NUMBER: P571642

CATALOG NUMBER: FLD4C-02-D010 FEU4C-X-90-27 F4X-M-X-H-BL89AM

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.7	9.1
10°-20°	22.7	23.9
20°-30°	29.2	30.8
30°-40°	22.0	23.1
40°-50°	8.8	9.3
50°-60°	2.5	2.7
60°-70°	0.8	0.8
70°-80°	0.2	0.2
80°-90°	0.0	0.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	60.6	63.8
0°-40°	82.6	87.0
0°-60°	94.0	98.9
0°-90°	95.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	95.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	94	
5°	92	9
15°	81	23
25°	64	29
35°	35	22
45°	11	9
55°	3	3
65°	1	1
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P571642

CATALOG NUMBER: FLD4C-02-D010 FEU4C-X-90-27 F4X-M-X-H-BL89AM

CANDELA DISTRIBUTION (FULL):

	0°
0°	94.2
2.5°	93.6
5°	92.5
7.5°	90.3
10°	87.6
12.5°	84.3
15°	81.2
17.5°	77.6
20°	73.7
22.5°	69.5
25°	64.5
27.5°	58.5
30°	51.5
32.5°	43.6
35°	35.3
37.5°	27.5
40°	20.6
42.5°	15.2
45°	10.9
47.5°	7.5
50°	5.2
52.5°	3.6
55°	2.6
57.5°	1.9
60°	1.4
62.5°	1.0
65°	0.7
67.5°	0.6
70°	0.4
72.5°	0.3
75°	0.1
77.5°	0.1
80°	0.1
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC





— 0°-180°







(END OF REPORT)